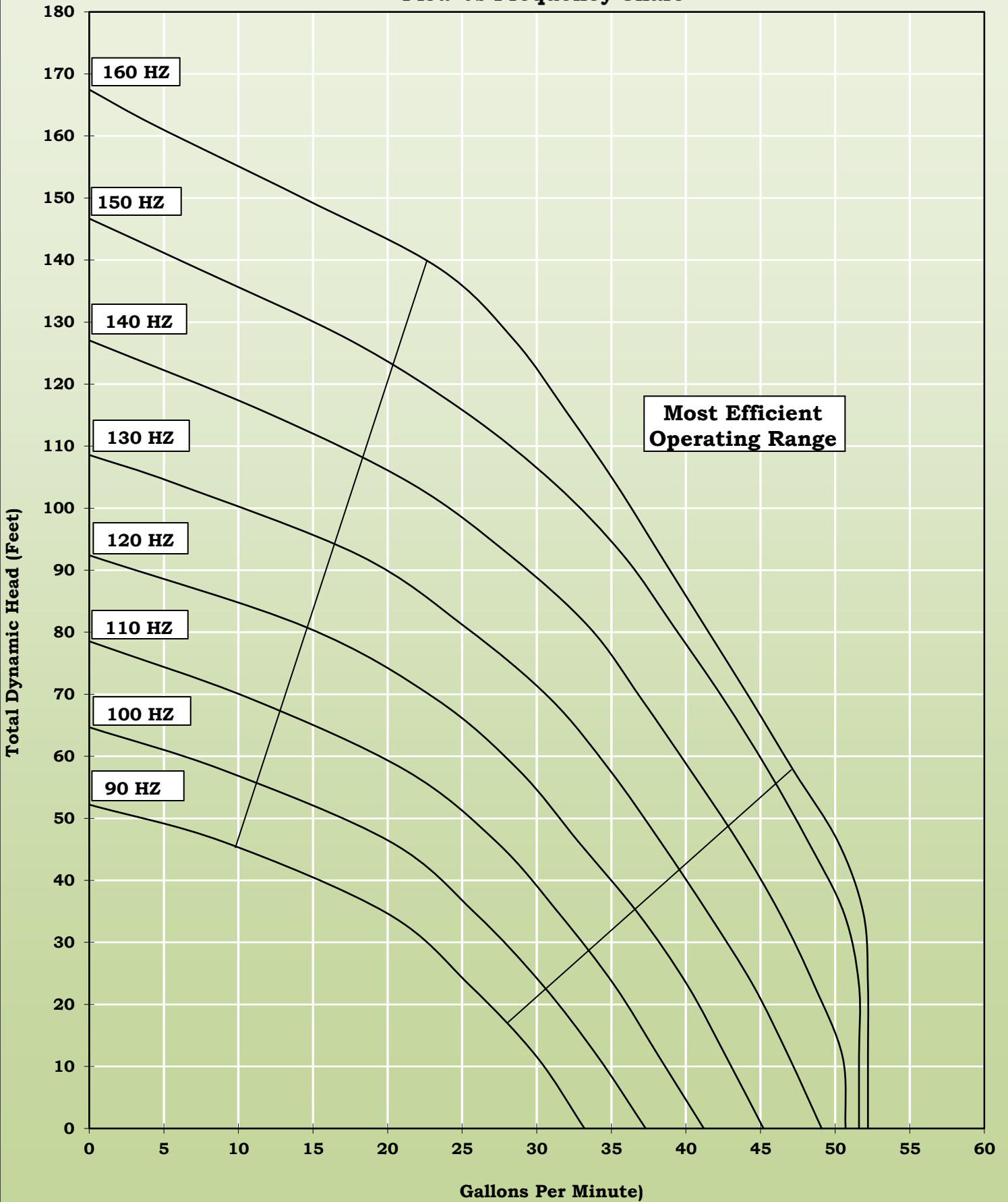


# SunPumps Centrifugal Submersible Model HS 35-115 AC/DC R1

## Flow vs Frequency Chart



## SunPumps Centrifugal Submersible Model HS 35-115 AC/DC R1

### 160 HZ

PSI	TDH Feet	TDH Meters	Motor Volts	Motor Amps	U.S. GPM	LPM	Motor Watts	Array *Watts	Pump Effic.
0	0	0.0	240	6.88	52.2	197.6	1651	2064	0%
5	12	3.5	240	7.15	52.2	197.6	1716	2145	7%
10	23	7.0	240	7.38	52.2	197.6	1771	2214	13%
15	35	10.6	240	7.32	51.9	196.4	1757	2196	19%
20	46	14.1	240	7.32	50.2	190.0	1757	2196	25%
25	58	17.6	240	7.32	47.2	178.7	1757	2196	29%
30	69	21.1	240	7.32	44.3	167.7	1757	2196	33%
35	81	24.6	240	7.32	41.3	156.3	1757	2196	36%
40	92	28.2	240	7.32	38.3	145.0	1757	2196	38%
45	104	31.7	240	7.32	35.3	133.6	1757	2196	39%
50	116	35.2	240	7.35	32.0	121.1	1764	2205	39%
55	127	38.7	240	7.44	28.5	107.9	1786	2232	38%
60	139	42.3	240	7.00	23.5	88.9	1680	2100	37%
65	150	45.8	240	5.54	14.2	53.7	1330	1662	30%
70	162	49.3	240	3.87	4.4	16.7	929	1161	14%
72.5	167	51.1	240	3.27	0.0	0.0	785	981	0%

\* Array Watts using a 20% deration factor.

### 150 HZ

PSI	TDH Feet	TDH Meters	Motor Volts	Motor Amps	U.S. GPM	LPM	Motor Watts	Array *Watts	Pump Effic.
0	0	0.0	240	5.98	51.6	195.3	1435	1794	0%
5	12	3.5	240	6.25	51.6	195.3	1500	1875	7%
10	23	7.0	240	6.60	51.6	195.3	1584	1980	14%
15	35	10.6	240	6.65	50.6	191.5	1596	1995	21%
20	46	14.1	240	6.76	48.2	182.4	1622	2028	26%
25	58	17.6	240	6.85	45.5	172.2	1644	2055	30%
30	69	21.1	240	6.89	42.5	160.9	1654	2067	34%
35	81	24.6	240	6.88	39.2	148.4	1651	2064	36%
40	92	28.2	240	6.84	35.8	135.5	1642	2052	38%
45	104	31.7	240	6.67	31.2	118.1	1601	2001	38%
50	116	35.2	240	6.21	25.2	95.4	1490	1863	37%
55	127	38.7	240	5.39	17.5	66.2	1294	1617	32%
60	139	42.3	240	3.72	7.3	27.6	893	1116	21%
63.5	147	44.7	240	2.85	0.0	0.0	684	855	0%

\* Array Watts using a 20% deration factor.

### 140 HZ

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Array *Watts	Pump Effic.
0	0	0.0	240	5.20	50.7	191.9	1248	1560	0%
5	12	3.5	240	5.32	50.5	191.1	1277	1596	9%
10	23	7.0	240	5.45	48.6	184.0	1308	1635	16%
15	35	10.6	240	5.58	46.3	175.2	1339	1674	23%
20	46	14.1	240	5.67	43.5	164.6	1361	1701	28%
25	58	17.6	240	5.72	40.3	152.5	1373	1716	32%
30	69	21.1	240	5.72	37.0	140.0	1373	1716	35%
35	81	24.6	240	5.70	33.5	126.8	1368	1710	37%
40	92	28.2	240	5.50	28.2	106.7	1320	1650	37%
45	104	31.7	240	5.00	21.6	81.8	1200	1500	35%
50	116	35.2	240	3.88	11.8	44.7	931	1164	28%
55	127	38.7	240	2.48	0.0	0.0	595	744	0%

\* Array Watts using a 20% deration factor.

### 130 HZ

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Array *Watts	Pump Effic.
0	0	0.0	240	4.24	49.1	185.8	1018	1272	0%
5	12	3.5	240	4.36	46.9	177.5	1046	1308	10%
10	23	7.0	240	4.48	44.5	168.4	1075	1344	18%
15	35	10.6	240	4.58	41.5	157.1	1099	1374	25%
20	46	14.1	240	4.65	38.3	145.0	1116	1395	30%
25	58	17.6	240	4.67	34.9	132.1	1121	1401	34%
30	69	21.1	240	4.64	30.9	117.0	1114	1392	36%
35	81	24.6	240	4.44	25.2	95.4	1066	1332	36%
40	92	28.2	240	3.95	18.1	68.5	948	1185	33%
45	104	31.7	240	2.62	5.8	22.0	629	786	18%
47	109	33.1	240	2.11	0.0	0.0	506	633	0%

\* Array Watts using a 20% deration factor.

### 120 HZ

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Array *Watts	Pump Effic.
0	0	0.0	240	3.43	45.2	171.1	823	1029	0%
5	12	3.5	240	3.54	42.7	161.6	850	1062	11%
10	23	7.0	240	3.64	40.1	151.8	874	1092	20%
15	35	10.6	240	3.75	36.8	139.3	900	1125	27%
20	46	14.1	240	3.79	32.8	124.1	910	1137	31%
25	58	17.6	240	3.76	28.8	109.0	902	1128	35%
30	69	21.1	240	3.60	23.2	87.8	864	1080	35%
35	81	24.6	240	3.03	14.5	54.9	727	909	30%
40	92	28.2	240	1.96	0.0	0.0	470	588	0%

\* Array Watts using a 20% deration factor.

### 110 HZ

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Array *Watts	Pump Effic.
0	0	0.0	240	2.76	41.2	155.9	662	828	0%
5	12	3.5	240	2.86	38.2	144.6	686	858	12%
10	23	7.0	240	2.95	35.2	133.2	708	885	22%
15	35	10.6	240	3.01	31.5	119.2	722	903	28%
20	46	14.1	240	3.01	27.3	103.3	722	903	33%
25	58	17.6	240	2.88	21.2	80.2	691	864	33%
30	69	21.1	240	2.32	10.8	40.9	557	696	25%
34	79	23.9	240	1.64	0.0	0.0	394	492	0%

\* Array Watts using a 20% deration factor.

### 100 HZ

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Array *Watts	Pump Effic.
0	0	0.0	240	2.18	37.3	141.2	523	654	0%
5	12	3.5	240	2.28	34.1	129.1	547	684	14%
10	23	7.0	240	2.36	30.4	115.1	566	708	23%
15	35	10.6	240	2.39	25.9	98.0	574	717	29%
20	46	14.1	240	2.31	20.2	76.5	554	693	32%
25	58	17.6	240	1.84	9.0	34.1	442	552	22%
28	65	19.7	240	1.43	0.0	0.0	343	429	0%

\* Array Watts using a 20% deration factor.

### 90 HZ

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Array *Watts	Pump Effic.
0	0	0.0	240	1.72	33.2	125.7	413	516	0%
5	12	3.5	240	1.81	30.0	113.6	434	543	15%
10	23	7.0	240	1.86	25.5	96.5	446	558	25%
15	35	10.6	240	1.84	20.0	75.7	442	552	30%
20	46	14.1	240	1.52	9.0	34.1	365	456	21%
22.6	52	15.9	240	1.21	0.0	0.0	290	363	0%

\* Array Watts using a 20% deration factor.